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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/864,489	05/24/2001	Dietbert Schoenfelder	10191/1831	2983
26646	7590 09/20/2002			
KENYON & KENYON			EXAMINER	
	BROADWAY YORK, NY 10004		MILLER, CARL STUART	
			ART UNIT	PAPER NUMBER
			3747	
			DATE MAILED: 09/20/2002	•

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No. Applicant(s)

Office Action Summary	01/867,789	SCHOENFELDER eve
Onice Action Gainmary	Examiner M://e-	Group Art Unit
	M. Her	1 3 (4)
The MAILING DATE of this communication appears	on the cover sheet ber	neath the correspondence address—
Period for Response		
A SHORTENED STATUTORY PERIOD FOR RESPONSE IS SET MAILING DATE OF THIS COMMUNICATION.	TO EXPIRE 3	MONTH(S) FROM THE
 Extensions of time may be available under the provisions of 37 CFR 1.13 from the mailing date of this communication. If the period for response specified above is less than thirty (30) days, a If NO period for response is specified above, such period shall, by defaul Failure to respond within the set or extended period for response will, by 	response within the statutory t, expire SIX (6) MONTHS fr	minimum of thirty (30) days will be considered timely. om the mailing date of this communication .
Status		
☐ Responsive to communication(s) filed on	West and the second	
☐ This action is FINAL .		
☐ Since this application is in condition for allowance except fo accordance with the practice under <i>Ex parte Quayle</i> , 1935 (eution as to the merits is closed in
Disposition of Claims		
X Claim(s)	is/are pending in the application.	
Of the above claim(s)	is/are withdrawn from consideration.	
□ Claim(s)	is/are allowed.	
∀ Claim(s)	is/are rejected.	
/ □ Claim(s)		is/are objected to.
□ Claim(s)	are subject to restriction or election	
Application Papers		requirement.
☐ See the attached Notice of Draftsperson's Patent Drawing F	Review. PTO-948.	
☐ The proposed drawing correction, filed on		disapproved.
☐ The drawing(s) filed on is/are objected	to by the Examiner.	
☐ The specification is objected to by the Examiner.		
$\hfill\Box$ The oath or declaration is objected to by the Examiner.		
Priority under 35 U.S.C. § 119 (a)-(d)		
 □ Acknowledgment is made of a claim for foreign priority unde □ All □ Some* □ None of the CERTIFIED copies of the □ received. □ received in Application No. (Series Code/Serial Number) 	priority documents have	e been
$\hfill\Box$ received in this national stage application from the Intern	ational Bureau (PCT Ru	le 1 7.2(a)).
*Certified copies not received:		·
Attachment(s)		
☐ Information Disclosure Statement(s), PTO-1449, Paper No(s	s) 🗆 Inte	erview Summary, PTO-413
Notice of References Cited, PTO-892	□ Not	tice of Informal Patent Application, PTO-152
☐ Notice of Draftsperson's Patent Drawing Review, PTO-948	□ Oth	ner
Office A	ction Summary	

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The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-4 and 7 are rejected under 35 U.S.C. 102(b) as being anticipated by Creighton.

In particular, at column 3, lines 23-25, Creighton teaches a "fixed time interval" between pilot and main injection pulses. The main pulse is also a function of engine speed. The control elements of the reference are, of course, driving switches used to power an electro-expansive pump element.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made

Claims 5-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Creighton in view of Sekiguchi.

Creighton applies as noted above and Sekiguchi teaches an injection pump which monitors an <u>actual</u> start of pump injection and corrects a signal to the timing setting valve to

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make the actual timing equal to the target timing. Note also that the quantity of injection is also set according to the timing of the beginning of injection.

Since the Sekiguchi method of <u>main</u> fuel control was well known in the art, it would have been obvious to apply this method to the main fuel pulse of Creighton.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication should be directed to C. Miller at telephone number 703-308-2653.

Carl S. Miller

C. Miller

C. Miller

September 14, 2002